

# CardioVascular Research Grid

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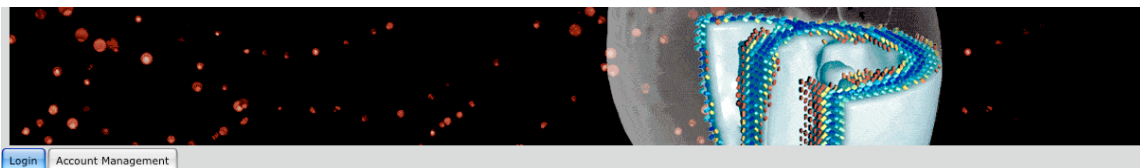
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## Introduction

This document provides an overview of the administrative procedures and basic usage procedures for managing users (including the creation, deletion and modification of user accounts.), providing administrative privileges (account roles and group assignments), and portal administration for the CardioVascular Research Grid (CVRG) Portal.

## Account Creation Process

User may request an account by going to the CVRG Portal homepage (<https://cvmg-portal.nbirn.net>) and clicking on the “Account Management” tab.



Once the user clicks on the “Account Management” tab they will be prompted to select whether they want to create a new Dorian account or change existing passwords (for both GAMA and Dorian). To access the portal, every use MUST have a registered Dorian account to gain access to the secure portal.

Select Account Type to Setup
<b>Create a Dorian Account</b> Dorian provides a complete Grid-enabled solution, based on public key certificates and SAML, for managing and federating user identities in a Grid environment. If you are a part of the Cardiovascular Research Grid project or trying to get to the CVRG Portal, this would be the correct account type for you.
<b>Change Dorian Account Password</b> If you would like to change your password for your Dorian account, please follow this link and complete the form.
<b>Change GAMA Account Password</b> If you would like to change your password for your GAMA account or if you have forgotten your GAMA password, please follow this link and complete the form.

Upon clicking on “Create a Dorian Account”, users will be required to enter some information that will be used to create the new account. All fields marked with an

asterisk must be filled in as they are required by the system. Upon completion, users will have the opportunity to check and validate their input.

The screenshot shows a web form titled "Registering for a new Dorian Account". Below the title is a instruction: "Please fill out the form to be submitted for processing. Items noted by an star(\*) are required." The form contains the following fields: "First Name \*" with value "John", "Last Name \*" with value "Doe", "Email Address \*" with value "jdoe@ucsd.edu", "Organization \*" with a dropdown menu showing "UCSD-BIRN Coordinating Center", "Username \*" with value "jdoe", "Street Line 1 \*" with value "1234 Freedom Drive", "Street Line 2" (empty), "City \*" with value "San Diego", "State \*" with a dropdown menu showing "California", "Postal Code \*" with value "92093", "Country \*" with value "US", "Work telephone \*" with value "8888888888", and a text area for "What is your interest in using this portal? \*" with the text "(226 characters left): working on some stuff...". A "Submit" button is at the bottom right.

**Note:** Make sure to provide a valid and unique email address for each account request.

Once the request has been submitted, a verification message will be displayed.

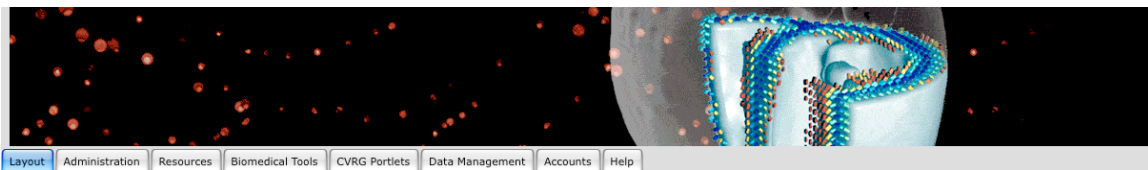
The screenshot shows a confirmation message box titled "Request an Account". Inside the box is a green checkmark icon followed by the text: "YOUR REQUEST HAS BEEN SUBMITTED. THE PORTAL ADMINISTRATOR WILL REVIEW YOUR REQUEST AND CONTACT YOU WITH ACTIVATION INSTRUCTIONS." Below this message is a link labeled "New Account Request".

All account requests will require the review and approval of a designated administrator. Once the administrator has reviewed, and approved/rejected the account request, an email will be sent to the user informing them of the administrator's decision. If approved, the user will be promoted to follow a link that will initiate the account activation process.

## CVRG Account Approval Process

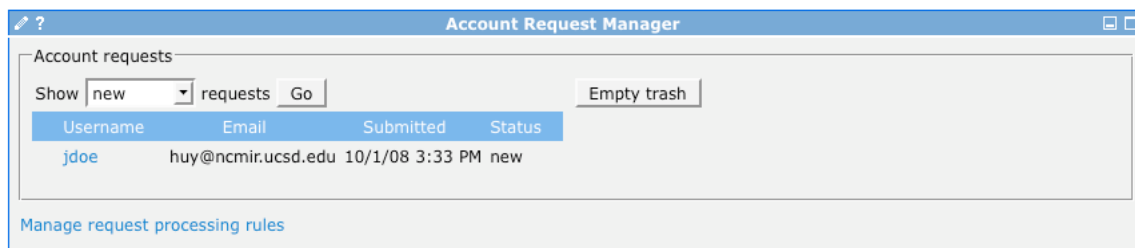
Designated portal administrators will receive an email every time a user requests a new account. After receiving the email, the administrator is required to log into the portal in order to review and approve any account.

In order to proceed after login, the administrator must click on the “Accounts” tab. All administrators will be provided with such a tab.



**Warning:** Administrators should not use the built in GridSphere “Administration” tab to create or modify users, as this will not come with the necessary security settings required to access the portal.

After selecting the “Accounts” tab, the administrator will see a list of users that currently are awaiting account approval.



All new account requires will be flagged as “new” under Status. By clicking on a user’s username the administrator then can review all the information that was provided by the user during the account registration process.

The screenshot shows the 'Account Request Manager' web application. The title bar indicates 'Account Request Manager'. The breadcrumb trail shows 'Account Manager home -> Edit Request'. Navigation buttons include '<-- Previous', 'List all', and 'Next -->'. The 'Request details' section on the left contains a form for user information, including fields for First Name (John), Last Name (Doe), Email Address (jdoe@ucsd.edu), Organization (UCSD-BIRN Coordinating Center), Desired username (jdoe), Street Line 1 (1234 Freedom Drive), Street Line 2, City (San Diego), State, Postal Code (92093), Country (US), and Work telephone (8888888888). There is also a text area for 'Briefly describe your interest in using the portal' with the text 'Working on some stuff...'. At the bottom of this section, it shows 'Application date' as 10/1/08 3:33 PM and 'Applied from' as CVRG Portal. The 'Administrative Functions' section on the right shows the 'Application status' as 'approved'. Under 'On activation:', there are checkboxes for 'Create GSI credentials', 'Initialize Myproxy', 'Add GridSphere user', and 'Add SRB user', all of which are checked. There is also an unchecked checkbox for 'Override the organization chosen by user.' and a dropdown menu showing 'UCSD-BIRN Coordinating Center'. The 'Administrative notes' section contains the text: 'New account request requires admin approval. Account username: jdoe Requested by: John Doe'. At the bottom, there is a 'Last updated' section with 'delete' and 'update this account request' buttons.

The administrator should review and validate that all the information provided is correct to the best of their knowledge. If in doubt, always double check with the organization's Principal Investigator (or someone in a similar position). It's important that the administrator verifies that the user selected the correct organization.

If a user has selected an incorrect organization, the administrator may choose to override the organization by selecting the "override" checkbox and selecting a new organization from the dropdown menu.

**Note:** The organization selected by the user determines the default SRB domain name and storage. The SRB check box may be unchecked if the user does not require an SRB account.

Once the account has been approved (or rejected) and email will be sent out to the user informing them of the decision.

## Procedures for the effect usage of the CardioVascular Research Grid Portal

**i** Request will be approved. Please verify all the user information. You can override the user organization if it is incorrect. You can also edit the activation notice below which will be sent to the user. Please click the Finish button to complete the update or the Back button to cancel or edit the request.

Request details		Administrative Functions	
First Name	Joe	<b>Application status</b>	<b>APPROVED</b>
Last Name	User	<b>On activation:</b>	
Email Address	mjames@ucsd.edu	<input checked="" type="checkbox"/> Create GSI credentials	
Organization	UCSD-BIRN Coordinating Center	<input checked="" type="checkbox"/> Initialize Myproxy	
Desired username	joeuser	<input checked="" type="checkbox"/> Add GridSphere user	
Street Line 1	123 Mark Street	<input checked="" type="checkbox"/> Add SRB user	
Street Line 2		<input type="checkbox"/> Override the organization chosen by user.	
City	New York	UCSD-BIRN Coordinating Center	
State	New York	<b>Administrative notes</b>	<b>Notes to User</b>
Postal Code	01111	New account request requires admin approval.	Your request has been approved. Please log on to the portal, enter your email address you entered in the account request, and create your new password. Once you have done creating your password, you can log in to the BIRN Portal using the username
Country	USA	Account username: joeuser	
Work telephone	555-555-1234	Requested by: Joe User	
Briefly describe your interest in using the portal		<b>Last updated</b>	
Working on brain research		Back	Finish
Application date	3/16/07 10:38 AM		
Applied from	BIRN Portal		

**Note:** Administrators may leave a note to the user prior to approval/rejection confirmation in a section designated “Notes to User”. The administrator can also leave administrative notes for themselves.

## User Account Activation Process

After the administrator approves the users account, the user is then sent an email, which will provide the user with a link to the account activation process.

**From:** portal@nbim.net  
**Date:** September 25, 2008 2:07:31 PM PDT  
**To:** jdoe@ucsd.edu  
**Subject:** New portal account activation instructions CVRG Portal

Your request has been approved. Please check your email and follow the activation link that is provided. Once you have clicked the link, you will be prompted to enter the same email address that you originally registered. From there, you will conclude the activation by creating a new password. Once you have created your password, you can log in to the BIRN Portal using your new username and password.

Portal URL:  
[http://cvrq-dev-portal.nbim.net/gidsphere/gidsphere?cid=dojanrequest&gs\\_action=linkStepOne&pid=973307532366166327](http://cvrq-dev-portal.nbim.net/gidsphere/gidsphere?cid=dojanrequest&gs_action=linkStepOne&pid=973307532366166327)

Username: jdoe  
Email: jdoe@ucsd.edu  
First Name: Joe  
Last Name: Doe  
Work Phone: 8888888888  
City: San Diego

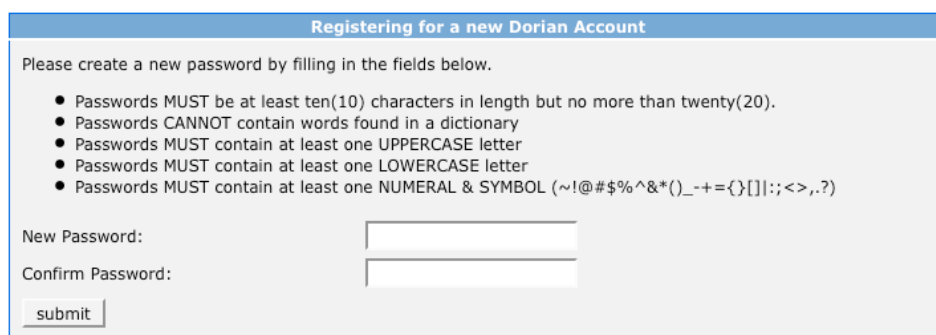
The account activation process requires that the user enter the email address used to register with and the creation of a password.

**Request an Account**

**i** In order to finish setting up your portal account, please verify your email address

After entering a valid email address the user will continue on to the password creation process. In order to fulfill the security requirements of the Dorian system, all passwords must meet a strict set of password requirements.

All passwords must be between 10 and 20 characters in length, contain at least one uppercase letter, one lowercase letter, one numeral, one symbol (~!@#\$%^&\*()\_-=+{}[]|:;<>.,?) and cannot contain any word that can be found in a common English dictionary.



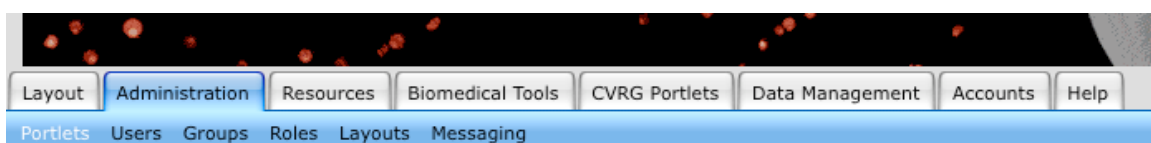
**Note:** All users must fulfill a strict set of password requirements in order to continue.

Once completed the user will be prompted to log into the portal (if the SRB checkbox was checked during approval, the user will also automatically activate their SRB account during this process).

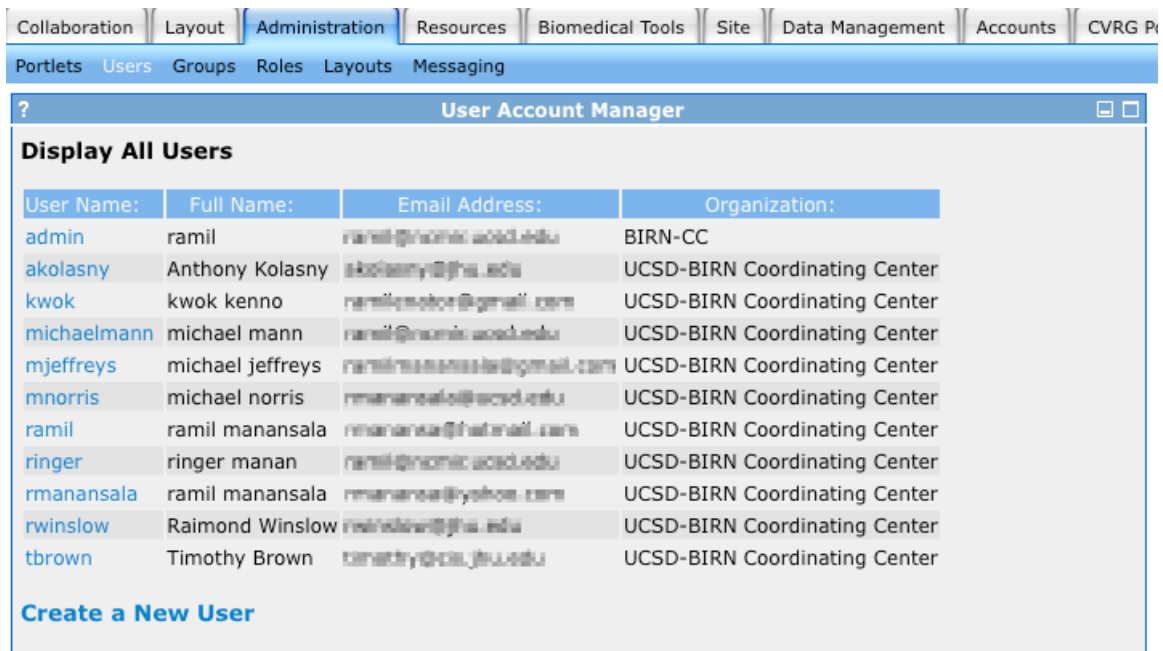
## Enabling Administrative Privileges

Enabling user administrative privileges for any user requires that a previously existing administrator execute a series of steps.

The first step requires that an existing administrator click on the “Administration” tab after logging into the portal.



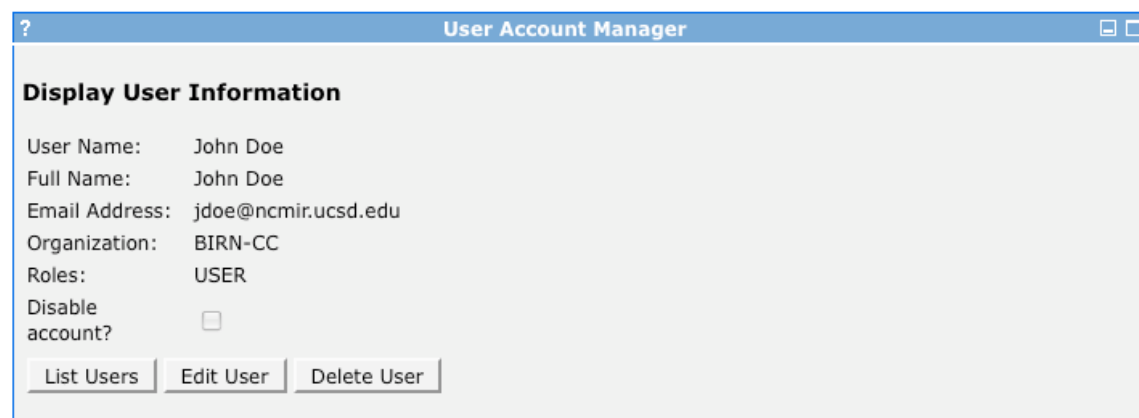
In the “Administration” tab, the Administrator can do a variety of things related to groups and the portal, however to change a user’s privileges, the administrator must click on “Users”. After clicking on the “Users” sub-tab a full list of portal uses will be displayed. Search for the necessary user and click on their username to continue the process.



The screenshot shows the "User Account Manager" interface. At the top, there is a navigation bar with tabs: Collaboration, Layout, Administration (selected), Resources, Biomedical Tools, Site, Data Management, Accounts, and CVRG P. Below this is a sub-navigation bar with links: Portlets, Users (selected), Groups, Roles, Layouts, and Messaging. The main content area is titled "Display All Users" and contains a table with the following columns: User Name, Full Name, Email Address, and Organization. The table lists 12 users, all of whom are associated with the "UCSD-BIRN Coordinating Center" organization. Below the table is a link to "Create a New User".

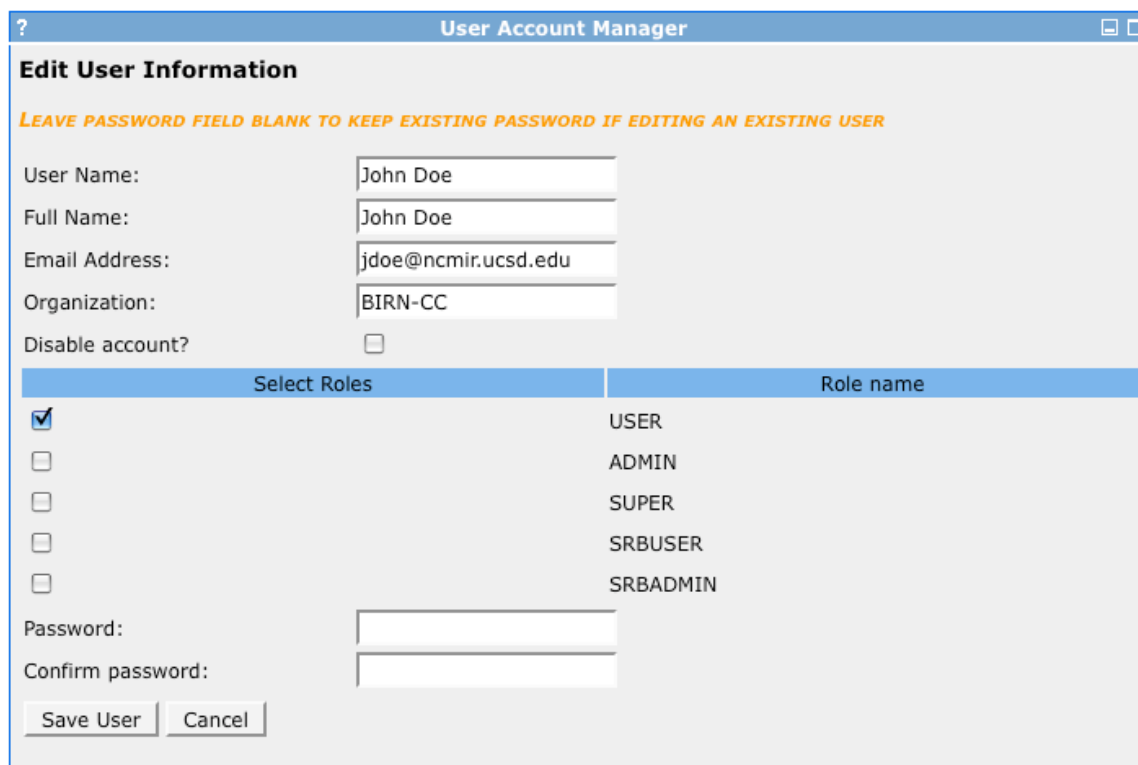
User Name:	Full Name:	Email Address:	Organization:
admin	ramil	ramil@ncmir.ucsd.edu	BIRN-CC
akolasny	Anthony Kolasny	akolasny@jhu.edu	UCSD-BIRN Coordinating Center
kwok	kwok kenno	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
michaelmann	michael mann	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
mjeffreys	michael jeffreys	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
mnorris	michael norris	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
ramil	ramil manansala	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
ringer	ringer manan	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
rmanansala	ramil manansala	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
rwinslow	Raimond Winslow	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center
tbrown	Timothy Brown	ramil@ncmir.ucsd.edu	UCSD-BIRN Coordinating Center

Clicking on the user will bring up the individual user account. There will be a series of check boxes for the administrator to click on.



The screenshot shows the "User Account Manager" interface for a specific user. The main content area is titled "Display User Information" and contains the following details: User Name: John Doe, Full Name: John Doe, Email Address: jdoe@ncmir.ucsd.edu, Organization: BIRN-CC, Roles: USER. Below this information is a checkbox labeled "Disable account?". At the bottom, there are three buttons: "List Users", "Edit User", and "Delete User".

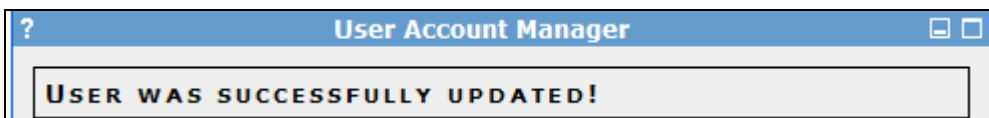
All new users start off with the default role “User”. To assign privileges, the administrator may proceed by clicking on the “Edit User” button.



The screenshot shows a web application window titled "User Account Manager". Inside, there is a section titled "Edit User Information". Below this title is a note in orange text: "LEAVE PASSWORD FIELD BLANK TO KEEP EXISTING PASSWORD IF EDITING AN EXISTING USER". The form contains several input fields: "User Name:" with the value "John Doe", "Full Name:" with "John Doe", "Email Address:" with "jdoe@ncmir.ucsd.edu", and "Organization:" with "BIRN-CC". There is also a checkbox for "Disable account?" which is currently unchecked. Below these fields is a table with two columns: "Select Roles" and "Role name". The table lists five roles: "USER" (checked), "ADMIN", "SUPER", "SRBUSER", and "SRBADMIN". At the bottom of the form are two input fields for "Password:" and "Confirm password:", and two buttons: "Save User" and "Cancel".

Select Roles	Role name
<input checked="" type="checkbox"/>	USER
<input type="checkbox"/>	ADMIN
<input type="checkbox"/>	SUPER
<input type="checkbox"/>	SRBUSER
<input type="checkbox"/>	SRBADMIN

The administrator can add or remove a users privilege simply by selecting and deselecting the checkboxes under the “Select Roles” column. Once the administrator has achieved the desired user status, simply press the “Save User” button to complete the process.

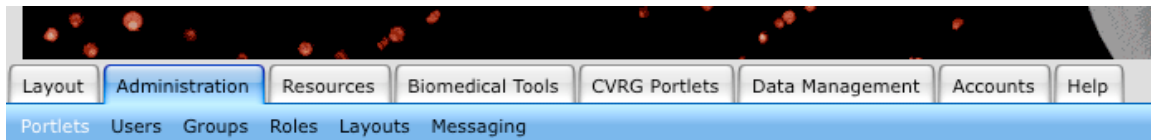


Once updated, the user can confirm that their privileges have indeed been changed by visually verifying that they now have an “Account” after they log in.

## Removing Administrative Privileges

Removing administrative privileges from a user is very similar to adding administrative privileges to a user.

The first step requires that an existing administrator click on the “Administration” tab after logging into the portal.



In the “Administration” tab, the Administrator can do a variety of things related to groups and the portal, however to change a user’s privileges, the administrator must click on “Users”. After clicking on the “Users” sub-tab a full list of portal uses will be displayed. Search for the necessary user and click on their username to continue the process.

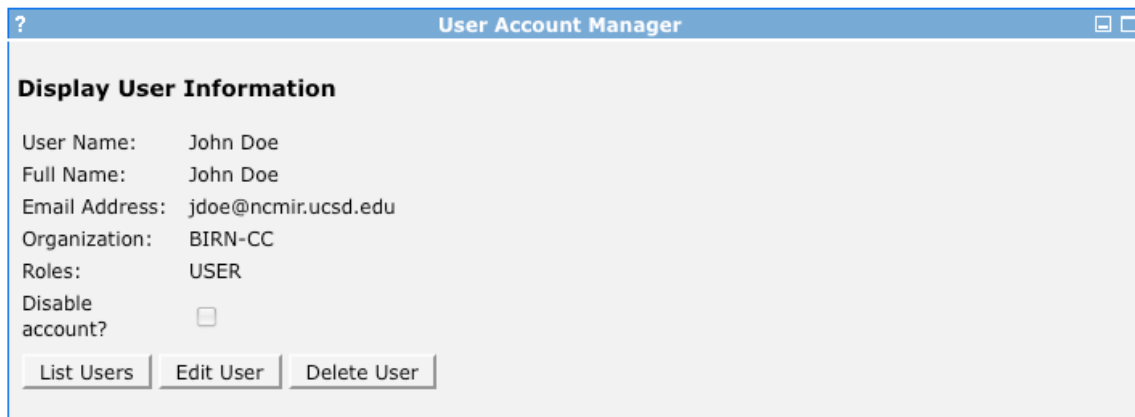
**User Account Manager**

**Display All Users**

User Name:	Full Name:	Email Address:	Organization:
admin	ramil	ramil@birc.ucsd.edu	BIRN-CC
akolasny	Anthony Kolasny	akolasny@hsa.edu	UCSD-BIRN Coordinating Center
kwok	kwok kenno	ramilkwok@gmail.com	UCSD-BIRN Coordinating Center
michaelmann	michael mann	ramil@birc.ucsd.edu	UCSD-BIRN Coordinating Center
mjeffreys	michael jeffreys	ramilmanansala@gmail.com	UCSD-BIRN Coordinating Center
mnorris	michael norris	rmanansa@ucsd.edu	UCSD-BIRN Coordinating Center
ramil	ramil manansala	rmanansa@hsa.edu	UCSD-BIRN Coordinating Center
ringer	ringer manan	ramil@birc.ucsd.edu	UCSD-BIRN Coordinating Center
rmanansala	ramil manansala	rmanansa@hsa.edu	UCSD-BIRN Coordinating Center
rwinslow	Raimond Winslow	rwinslow@hsa.edu	UCSD-BIRN Coordinating Center
tbrown	Timothy Brown	timothy@hsa.edu	UCSD-BIRN Coordinating Center

[Create a New User](#)

Clicking on the user will bring up the individual user account. There will be a series of check boxes for the administrator to click on.

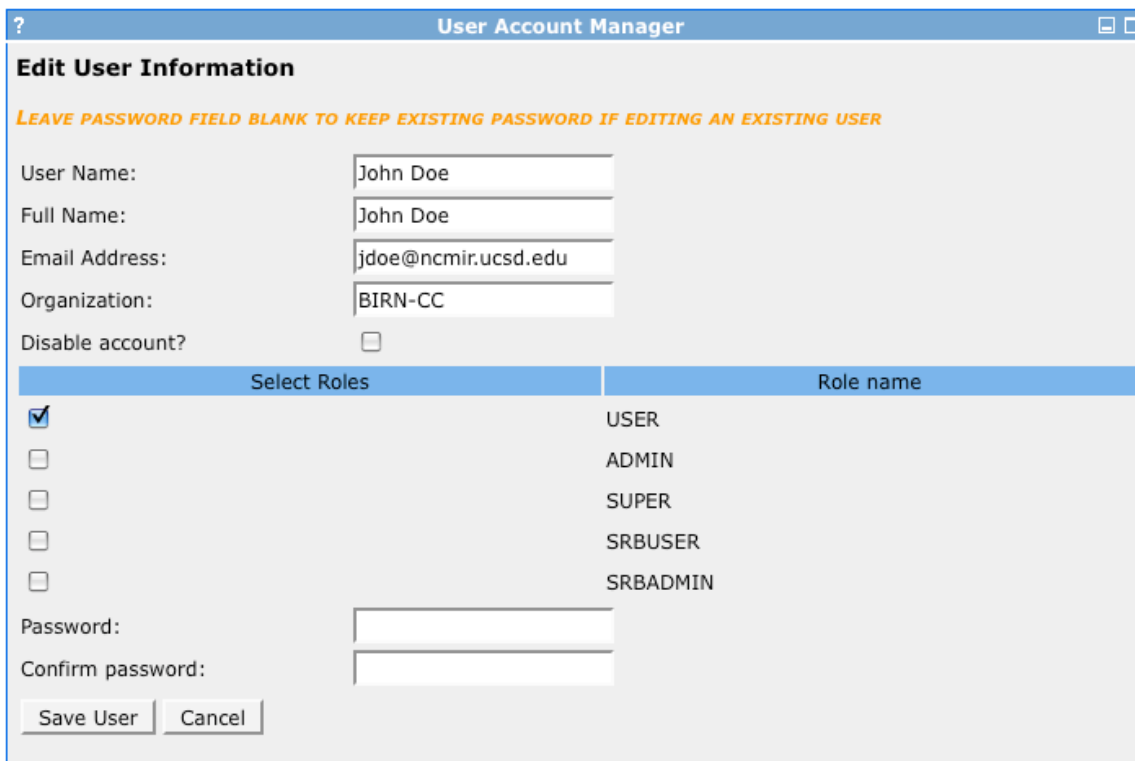


The screenshot shows a web application window titled "User Account Manager". It displays the "Display User Information" for a user named John Doe. The information includes the user's name, full name, email address (jdoe@ncmir.ucsd.edu), organization (BIRN-CC), and role (USER). There is a checkbox for "Disable account?" which is currently unchecked. At the bottom, there are three buttons: "List Users", "Edit User", and "Delete User".

User Name:	John Doe
Full Name:	John Doe
Email Address:	jdoe@ncmir.ucsd.edu
Organization:	BIRN-CC
Roles:	USER
Disable account?	<input type="checkbox"/>

[List Users](#) [Edit User](#) [Delete User](#)

All new users start off with the default role "USER". In the case that they are already an administrator, the user's roles should list both "USER" and "SUPER". In order to remove privileges, the administrator may proceed by clicking on the "Edit User" button.



The screenshot shows the "Edit User Information" page in the "User Account Manager". It includes a warning message: "LEAVE PASSWORD FIELD BLANK TO KEEP EXISTING PASSWORD IF EDITING AN EXISTING USER". The user's information is displayed in a form with input fields for User Name, Full Name, Email Address, and Organization. There is a checkbox for "Disable account?". Below this is a table for selecting roles. The roles listed are USER, ADMIN, SUPER, SRBUSER, and SRBADMIN. The "USER" role is selected with a checked checkbox. At the bottom, there are input fields for "Password:" and "Confirm password:", and two buttons: "Save User" and "Cancel".

**Edit User Information**

*LEAVE PASSWORD FIELD BLANK TO KEEP EXISTING PASSWORD IF EDITING AN EXISTING USER*

User Name:	John Doe
Full Name:	John Doe
Email Address:	jdoe@ncmir.ucsd.edu
Organization:	BIRN-CC
Disable account?	<input type="checkbox"/>

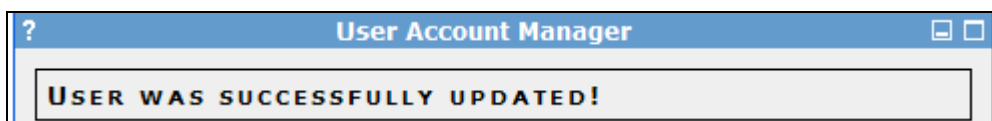
Select Roles	Role name
<input checked="" type="checkbox"/>	USER
<input type="checkbox"/>	ADMIN
<input type="checkbox"/>	SUPER
<input type="checkbox"/>	SRBUSER
<input type="checkbox"/>	SRBADMIN

Password:

Confirm password:

[Save User](#) [Cancel](#)

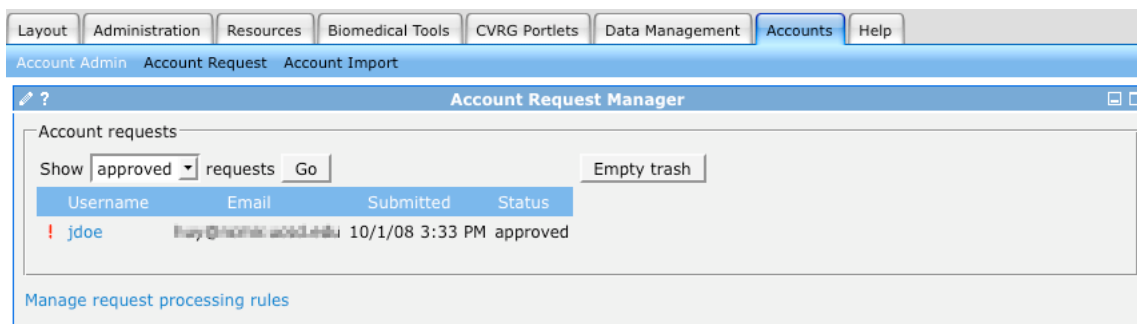
The administrator can add or remove a users privilege simply by selecting and deselecting the checkboxes under the “Select Roles” column. Once the administrator has achieved the desired user status, simply press the “Save User” button to complete the process.



Once updated, the user can confirm that their privileges have indeed been removed by visually verifying that they no longer have an “Account” after they log in.

## Deleting a User Account

In order to delete a user account, an administrator must log in the portal and continue by clicking on the “Account” tab.



**Note:** The account above is an example of an account which ran into a problem during registration.

The administrator can delete a variety of accounts, including but not limited to “activated” accounts, “approved” accounts or accounts that may have had a problem during the registration processes (which is noted by a red exclamation mark). To continue the deletion process, the administrator must first locate the user that they want to delete.

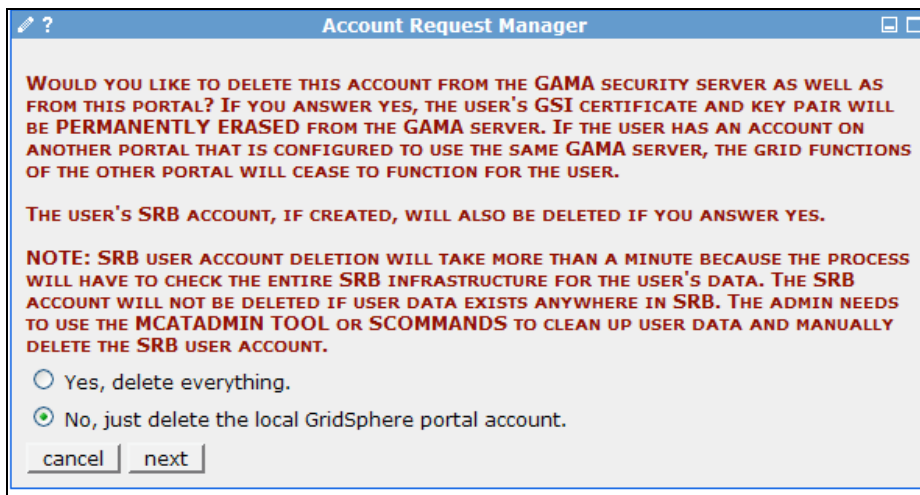
## Procedures for the effect usage of the CardioVascular Research Grid Portal

The screenshot shows the 'Account Request Manager' interface. At the top, there are tabs for 'Layout', 'Administration', 'Resources', 'Biomedical Tools', 'CVRG Portlets', 'Data Management', 'Accounts', and 'Help'. Below these tabs, there are links for 'Account Admin', 'Account Request', and 'Account Import'. The main content area is titled 'Account Request Manager' and contains a section for 'Account requests'. This section has a 'Show' dropdown menu set to 'approved', a 'requests' link, a 'Go' button, and an 'Empty trash' button. Below this is a table with columns: 'Username', 'Email', 'Submitted', and 'Status'. The first row of the table shows 'jdoe' in the 'Username' column, 'huy@ucsd.edu' in the 'Email' column, '10/1/08 3:33 PM' in the 'Submitted' column, and 'approved' in the 'Status' column. A red circle is drawn around the 'jdoe' entry in the 'Username' column. Below the table, there is a link that says 'Manage request processing rules'.

The administrator can continue the process by clicking on the user's name and continuing to the user information screen.

The screenshot shows the 'Edit User Information' screen for the user 'jdoe'. The page is titled 'Account Request Manager' and has a breadcrumb trail 'Account Manager home -> Edit Request'. There are navigation buttons: '<-- Previous', 'List all', and 'Next -->'. The page is divided into two main sections: 'Request details' and 'Administrative Functions'. The 'Request details' section contains a form with fields for 'First Name', 'Last Name', 'Email Address', 'Organization', 'Desired username', 'Street Line 1', 'Street Line 2', 'City', 'State', 'Postal Code', 'Country', 'Work telephone', and a text area for 'Briefly describe your interest in using the portal'. The 'Administrative Functions' section contains a dropdown menu for 'Application status' set to 'approved', a section for 'On activation' with checkboxes for 'Create GSI credentials', 'Initialize Myproxy', 'Add GridSphere user', and 'Add SRB user', and a section for 'Administrative notes' with a text area containing the text 'New account request requires admin approval. Account username: jdoe Requested by: John Doe'. At the bottom of the 'Administrative Functions' section, there are buttons for 'delete' and 'update this account request'.

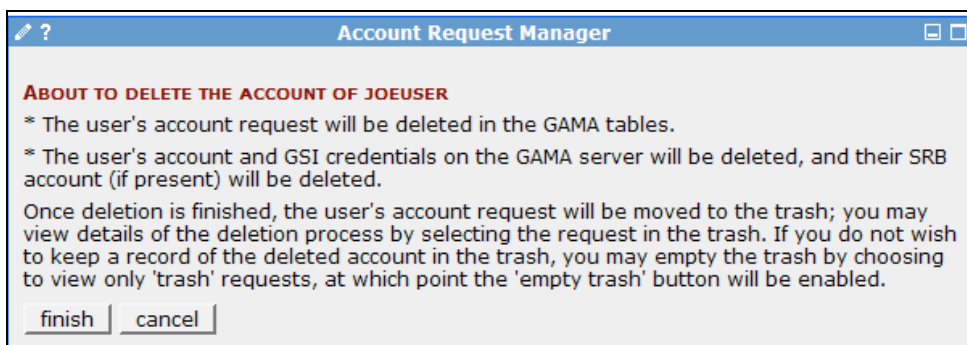
If the administrator wants to continue the process, they simply need to hit the “Delete” button, which will be followed by a warning screen.



The administrator has two options once the warning screen is present. They can opt to delete everything related to the account (GAMA, Dorian, SRB, GridSphere accounts) or just the GridSphere account.

If the administrator deletes “everything” all credentials and accounts will be deleted. They will no longer have an SRB account and will lose their files.

If the administrator only wants to delete the GridSphere account, the user will no longer be able to log into the portal but will still retain their Dorian, GAMA and SRB accounts. The user will be able to access their SRB account and files by authenticating through a UNIX terminal.



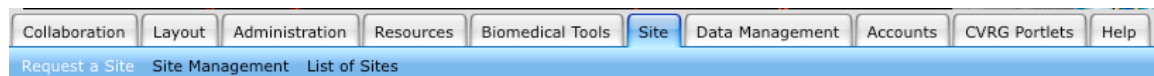
The final step of the deletion process requires that the administrator confirm their decision. By clicking “finish”, the administrator will have successfully have completed the user deletion process.

After deleting a user, the user will no longer be able to log into the portal.

## Requesting a New Site

A site can simply be described as a new organization. Requests for new sites require the approval by an administrator. A new site is defined as either a new location in which hardware (such as a rack) that has been installed or a new collaborative group that will be working with an existing site.

In order to add a new site, a user must log in and click on the “Site” tab. It’s important to note that only uses with administrative privileges are authorized to add a new site.



The user will be required to enter the required data necessary to add a new site. If the new site involves a new rack or hardware, a new domain name for SRB must be entered. If the site involves a new collaborative group, the new site must be defined using the domain name of the existing collaborative site.

A screenshot of the 'Site Registration' form. The form is titled 'Site Request Form' and includes a note: 'Required data for fields with an "\*" next to it.' The form is divided into two main sections. The first section, 'Requester Information', contains four required fields: '\* First name:' (filled with 'Sam'), '\* Last Name:' (filled with 'User'), '\* Email (e.g. cormacm@ua.edu):' (filled with 'sam.user@USA.edu'), and '\* Phone (e.g. (858) 926-1233):' (filled with '888-555-1212'). The second section contains a text area for '\* Please tell us your interest in registering your site:' and a message box that reads 'We recently acquired a new rack to use with BIRN.'

Site Information	
* Site Full Name (e.g. Rat Genome Projects):	Neurosciences Interactive Center of Excellence
* Site Short Name (e.g. RGP):	NICE
* Parent Full Name (e.g. University of Alberta):	University of South Dakota
* Parent Short Name (e.g. UA):	USD
* Domain Name (e.g. nbirn.net):	usdakota.edu
* Phone Number (e.g. (555) 912-0122):	888-555-1212
Fax (e.g. (555) 912-1212):	888-555-1213
* URL (e.g. http://www.rgp.ua.edu):	http://nice.usdakota.edu
* First Address Line (e.g. M/S 6 Islay Hall):	300 Research Hall
Second Address Line (e.g. University of Alberta):	Hemlock Building, USA
* City:	Sioux Falls
* State (e.g. California):	SD
* State (e.g. California):	United States
* Post code (e.g. 95132):	99999
* Principle Investigator contact:	Stuart Ramansalaman
Alternative contact:	Heinrich Bohannman
<input type="button" value="Submit Request"/> <input type="button" value="Clear Request"/>	

**Note:** When supplying the “Domain Name”, it is only required that the user enters the address along with the domain extension (i.e. ucsd.edu).

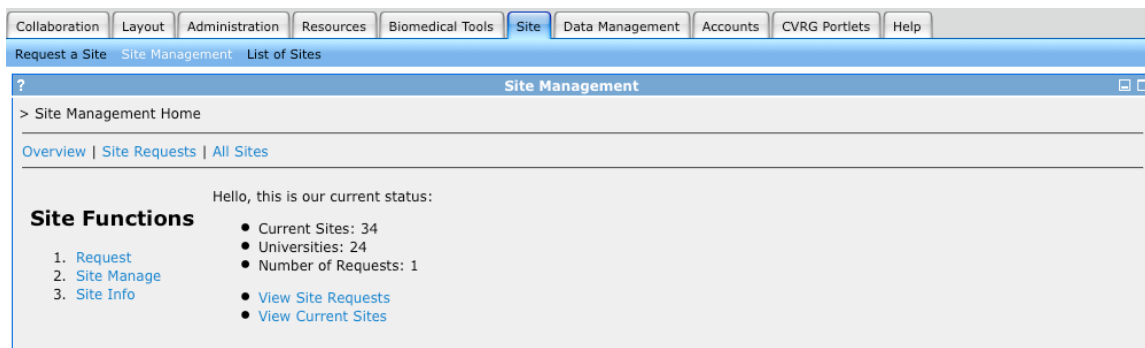
Once the user has completed the form, they simply need to click the “Submit Request” button and confirm that their data is correct on the next screen. Once the user has validated their information, they can complete the process by clicking on “Confirm Site”. A confirmation screen will appear and the portal administrator will receive an email.

At this point, the user must wait for the pending request and the administrator can either approve or deny the user’s request.

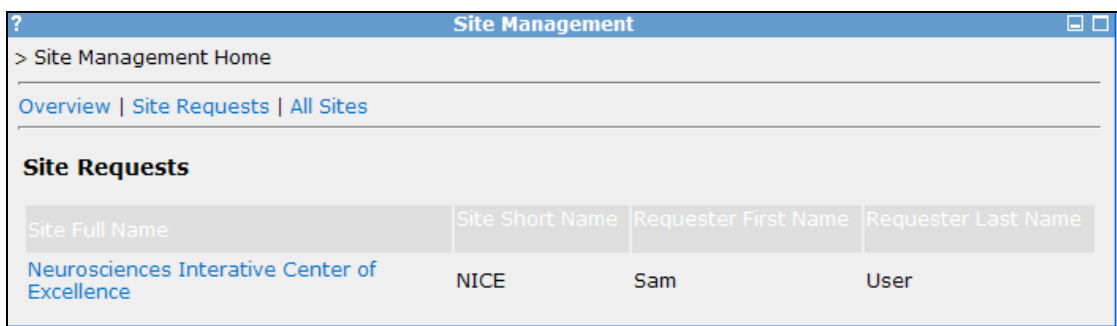
## Approving a New Site

The portal administrator must log into the portal to approve new sites. They can start the approval process by clicking on the “Site” tab, followed by the “Site Management” sub-tab.

## Procedures for the effect usage of the CardioVascular Research Grid Portal

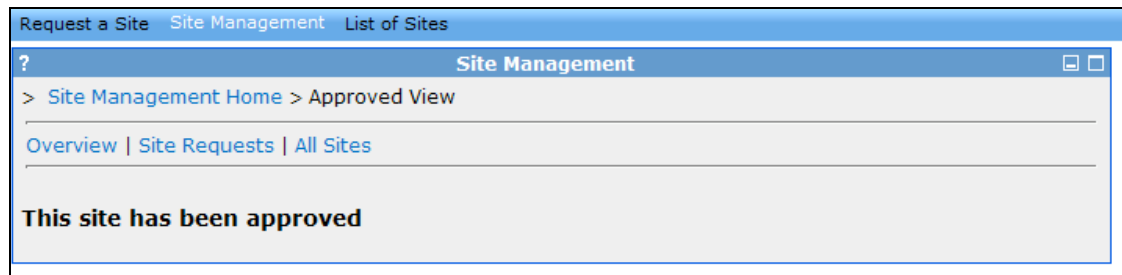


The administrator can continue the process by simply clicking on the “View Site Requests” link. This will bring up a list of new sites.

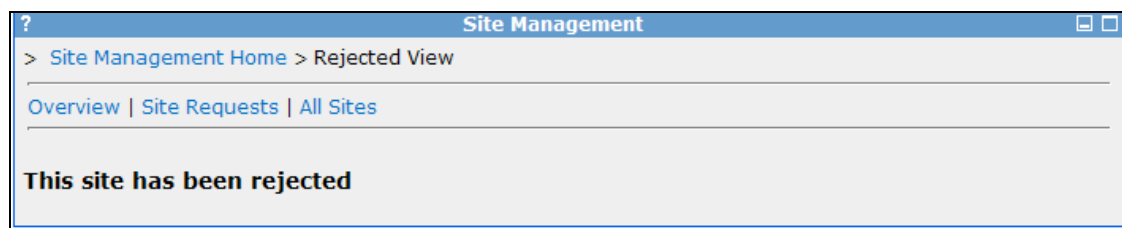


To continue the process, the administrator must click on the new site name, which will bring up all the information relating to the new site request. After carefully reviewing the information, if the portal administrator chooses to approve the new site by clicking on the “Approve” button, they must first assign a unique site number (this field can be found right above the “Approve” button”). If the administrator wishes to reject the new site, they can skip the unique site number step and simply reject the new site by clicking on the “Reject” button.

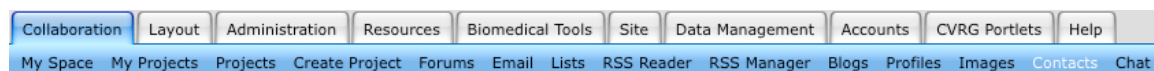
If the site was approved, a confirmation screen informing the administrator of their recent approval will be displayed.



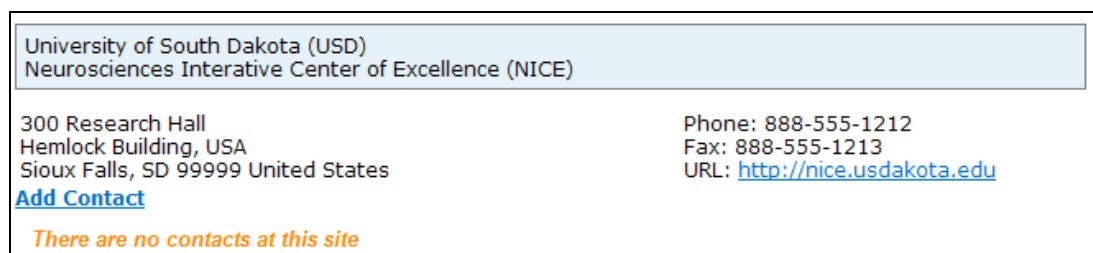
However, if the new site was rejected, a confirmation screen informing the administrator of their recent rejection will be displayed.



If the administrator wishes to confirm a recent approval or wishes to view more site information, they simply need to log in (if they haven't done so) and click on the "Collaboration" tab followed by the "Contacts" sub-tab.



After scrolling around, it is likely that the administrator will find their desired site.

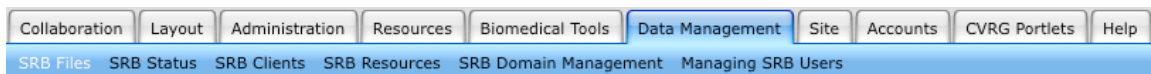


After finding the desired site, the administrator would have concluded the new site confirmation process.

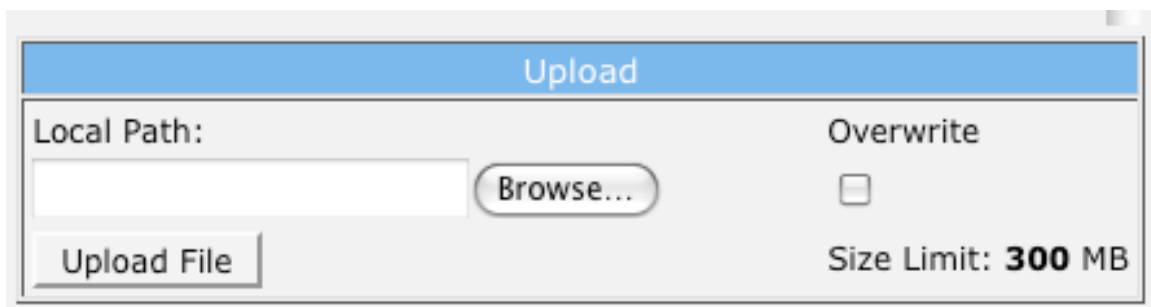
## Processing LDDMM Jobs

Large Deformation Diffeomorphic Metric Mapping (LDDMM) is an application that aims to assign metric distances on the space of anatomical images in Computational Anatomy. Processing a LDDMM job is quite easy, and only requires that a portal user have an active SRB account (which should have automatically been created during their account creation process, unless the administrator disabled it).

The first step to processing LDDMM jobs requires that the user log into the portal and click on the “Data Management” tab (which is the main tab for all SRB account related processes).



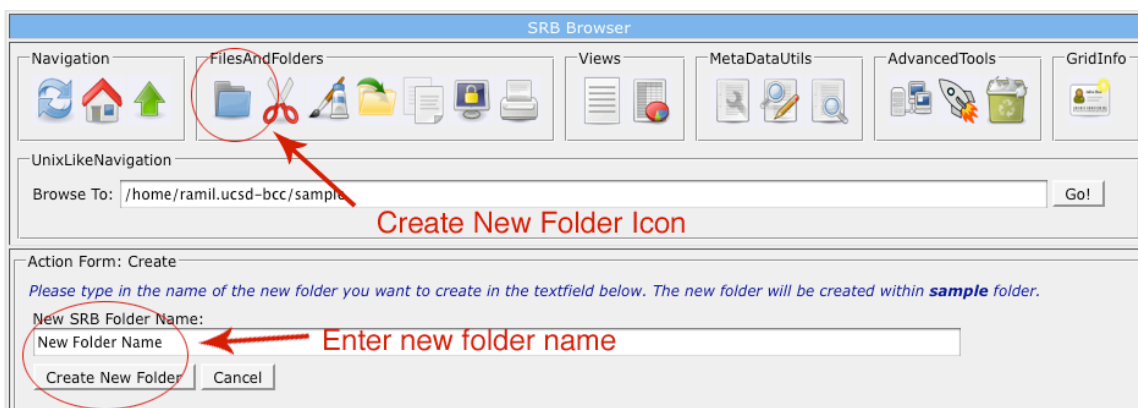
The second step is to actually have data uploaded to the user’s SRB account. The data management upload feature can be found on the right side of the screen towards the bottom. All the user has to do is simply browse for the file then hit the “Upload File” button.



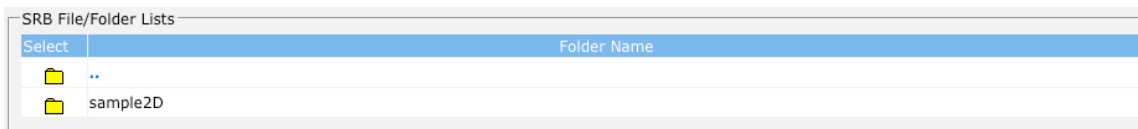
The user will immediately see the page refresh and the file will appear listed on the left panel.

While its not required, its highly recommended that the user create a new folder to store all related files for better archiving.

New folders can be created by clicking on the “Create New Folder” icon located on SRB Browser navigation panel. After clicking on the icon, the user will be prompted to enter a new folder name. By clicking on the “Create New Folder” button, the user will have concluded the new folder creation process.



To move around, all the user has to do is click the yellow folder that is located directly next to the folder name to traverse through the directory.



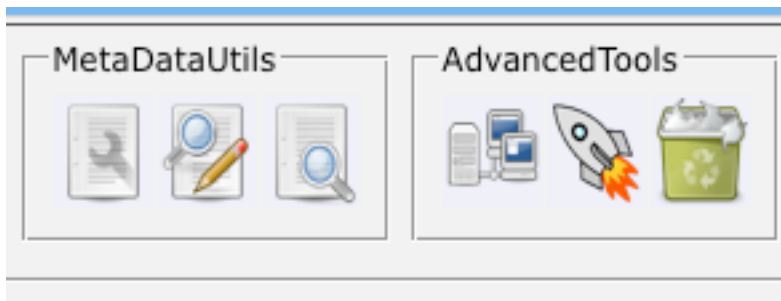
**Note:** There is currently no way to upload an entire directory.

If the user has not done so, be sure to upload the files now. After uploading, the user should be able to see a list of files they have uploaded.

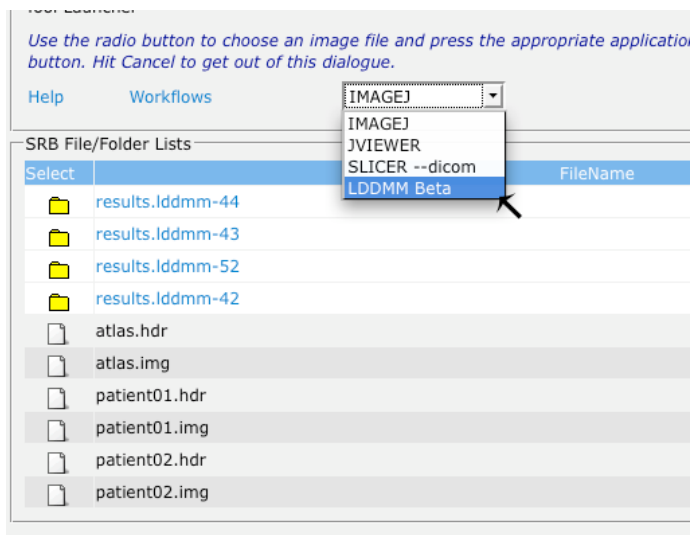
## Procedures for the effect usage of the CardioVascular Research Grid Portal

SRB File/Folder Lists				
Select	File Name	Download	Preview	Details
	..			
	results.lddmm-44			
	results.lddmm-43			
	results.lddmm-52			
	results.lddmm-42			
	atlas.hdr			
	atlas.img			
	patient01.hdr			
	patient01.img			
	patient02.hdr			
	patient02.img			

To process the data files, the user must first click on the “Launch” icon, which is conveniently displayed as a “rocket ship” on the navigation panel.



Once the “launch” button has been activated, the user must then select the LDDMM (Beta) option in the drop down menu.



The all jobs can be configured to meet the needs of the researcher/user and can be changed, however, for the needs of a basic user, all they would have to do is select the radio button of the file they wish to process and click on the “Launch Tool” button to start the job. As soon as the job is launched, the user will be forwarded to a screen (located in the “Biomedical Tools” stab and “LDDMM Status” sub-tab). The most recent job submission should be located on the top of the list.






























Collaboration	Layout	Administration	Resources	Biomedical Tools	Data Management	Site	Accounts	CVRG Portlets	Help
BIRN Data Integration Tools	Database	Analysis & Visualization	Atlas Tools	Bonfire Ontology Editor	QAp Admin	QAp	LDDMM Status		
LDDMM Status									
Jobs Status									
Job Id	Date Entered	User	Last Updated	# of Tasks	# of Running Tasks	# of Completed Tasks			
53	2008-10-03 15:40:58.186	ramil	2008-10-03 15:40:58.186	2	0	0			
52	2008-10-03 10:10:15.201	ramil	2008-10-03 10:10:15.201	2	0	2			
51	2008-10-03 09:22:22.95	akolasny	2008-10-03 09:22:22.95	1	0	1			
50	2008-10-03 05:56:18.841	akolasny	2008-10-03 05:56:18.841	1	0	1			
49	2008-10-03 05:55:34.508	akolasny	2008-10-03 05:55:34.508	1	0	1			
48	2008-10-01 08:38:14.466	akolasny	2008-10-01 08:38:14.466	1	0	1			
47	2008-10-01 04:24:11.006	akolasny	2008-10-01 04:24:11.006	1	0	1			

The user can view a job by simply clicking on the job ID. A blue highlighted job means that the task is accessible to the user while a non-highlighted (normal black text by default) job means the job is not accessible to the user to view regardless of permissions.

JobProperties Id - 53				
Configuration File	##### GENERAL PARAMETERS - leave no whitespace #Parameters that start with IN_ will be overridden by #command line options in the case of a conflict ##### IN_ATLAS_PATH= IN_TARGET_PATH= IN_SERIES_PATH= IN_ATLAS_LMK_PATH= IN_TARGET_LMK_PATH= IN_OUTPUT_PATH= #Dimension, 2 or 3 IN_D=3 #Number of Simulations: 1000 SIMSTEPS=1000 #Number of timesteps in each simulation: 10 IN_TIMESTEPS=10 #If want to save subset of vtk files use parameter to specify interval to save #For example if IN_TIMESTEPS set to 10 and wish to save every 5th interval use IN_VTK_INTERVAL=5 IN_VTK_INTERVAL= #Integration delta: 0.1 DELTA=0.1 #Epsilon Energy: 0.0000000001 EPSILON=0.0000000001 #Number of Processors Z IN_PROCS_Z=1 #Number of Processors Y IN_PROCS_Y=1 #Number of Processors X IN_PROCS_X=1 #Alpha: 0.01 ALPHA=0.01 #Gamma: 1 GAMMA=1 #Power of Operator L: 1 POWERL=1 #Padi Supplied: 20 PADI=20 #Padi Supplied: 5 PADI=5 #normGradientToStopSimulation Supplied: 1000 NORM_GRAD=1000 #Restarting by reading existing velocity fields: 0 RESTART=0 #Noise Std. Deviation sigma: 1 SIGMA=1 #Fraction of Original Image Error To Reach Before Stop: 0.02 ERROR=0.02 #Simulation Steps after which to change Imge Matching Epsilon: 25 CH_EPSILON=25 #true for MPG movie file, blank otherwise CREATE_MPG= #true for TAR file, blank otherwise CREATE_TAR= ##### LANDMARK PARAMETERS #NO NEED TO CHANGE IF NOT USING [-]   --landmark   [-L & -M] ##### true for Landmark matching, blank otherwise USE_LMK_MATCHING= #First Apply Rigid LMK Matching (1 for yes, 0 for no) : 0 USE_RLM=0 #Operator Greens Function (1 for Gaussian, 2 for -a Laplacian + c): 1 OP_GREEN=1 #GreensParameter: for (1) GaussianSigma, (2) a/c: 5 GREEN_PARAM=5 #Noise associated with Landmark Placement: 1 LMK_NOISE=1 #Number of landmark simulations: 100 LMK_SIMS=100 #Gradient Step Epsilon for Landmark gradient update: 1e-4 LMK_EPSILON=1e-4 #GradientMethod (1-CamionSplines, 2-GradientV): 2 LMK_METHOD=2			
Job Created On	2008-10-03 15:40:58.186			
Tasks				
Task Id	Status	System Id	Command Line	Last Updated
100	Complete	157	/usr/local/bin/ldmm-volume -A srbfile:/home/ramil.ucsd-bcc/sample2D/patient01.img -T srbfile:/home/ramil.ucsd-bcc/sample2D/atlas.img -d 2	2008-10-03 15:43:22.082182
101	Complete	156	/usr/local/bin/ldmm-volume -A srbfile:/home/ramil.ucsd-bcc/sample2D/patient01.img -T srbfile:/home/ramil.ucsd-bcc/sample2D/patient02.img -d 2	2008-10-03 15:43:22.078992

Once the job has been completed, the user can go back to the data management tab, and find the results in a new folder that has automatically been created. Each job result gets an individual folder with the Job ID appended to it.

## Procedures for the effect usage of the CardioVascular Research Grid Portal

SRB File/Folder Lists				
Select	File Name	Download	Preview	Details
	..			
	results.iddmm-44			
	results.iddmm-43			
	results.iddmm-52			
	results.iddmm-42			
	atlas.hdr			
	atlas.img			
	patient01.hdr			
	patient01.img			
	patient02.hdr			
	patient02.img			

After the user confirms that their tasks have been completed, that would then conclude the LDDMM job submission process.